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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/783,859	02/19/2004	Lawrence A. Spracklen	SUNMP501	7656	
32291 MARTINE PE	7590 12/14/2007 NILLA & GENCAREL		EXAM	EXAMINER	
710 LAKEWAY DRIVE			TOLENTINO	TOLENTINO, RODERICK	
SUITE 200 SUNNYVALE	, CA 94085		ART UNIT	PAPER NUMBER	
			2134	, , , , , , , , , , , , , , , , , , , ,	
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			MAIL DATE	DELIVERY MODE	
			12/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/783,859	SPRACKLEN, LA	WRENCE A.
Office Action Summary	Examiner	Art Unit	
•	Roderick Tolentino	2134	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence ac	idress
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION IN THE PROPERTY OF THE COMMUNICATION IN THE PROPERTY OF THE PROPERTY	ATION. Ny be timely filed S from the mailing date of this c NDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>26 C</u> 2a)⊠ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for alloware closed in accordance with the practice under the second sec	s action is non-final. ince except for formal matte	<u>-</u>	e merits is
Disposition of Claims			
4) ☐ Claim(s) 1-9,12,13,15 and 17-19 is/are pending 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9, 12, 13, 15 and 17-19 is/are rejection is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or and/or are subject.	ected.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 19 February 2004 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 11.	re: a) \square accepted or b) \boxtimes of drawing(s) be held in abeyand stion is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 C	FR 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Ap prity documents have been r nu (PCT Rule 17.2(a)).	plication No eceived in this Nationa	l Stage
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)	mmary (PTO-413) /Mail Date ormal Patent Application 	

DETAILED ACTION

1. Claims 1 – 9, 12, 13, 15 and 17 – 19 are pending.

Response to Arguments

2. Applicant's arguments with respect to claim1, 7, 12 and 17 have been considered but are most in view of the new ground(s) of rejection, as necessitated by amendment filed 10/26/2007.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 3, 7, 12, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. U.S. Patent No. (7,103,602) in view of Col et al. U.S. Patent No. (6,330,657) and Oka et al. U.S. PG-Publication No. (2002/0108042).
- 5. As per claims 1, 7, 12 and 17, Black teaches a processor capable of executing a secure hash algorithm (SHA) (Black, Col. 2 Lines 14 30, processor that can compute SHA), but fails to teach the first execution unit defined to communicate a partial result of the schedule computation on the data block to the second execution unit when the partial result becomes available and prior to completion of the schedule computation on

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the data block, wherein the second execution unit is defined to perform a compression function on the partial result received from the first execution unit in parallel with the first execution unit continuing the schedule computation on the data block. However, in an analogous art Col teaches the first execution unit defined to communicate a partial result of the schedule computation on the data block to the second execution unit when the partial result becomes available and second execution in parallel with the first execution unit continuing the schedule computation on the data block (Col, Col.14 Lines 1 – 20, parallel processing execution) and Oka teaches prior to completion of the schedule computation on the data block, wherein the second execution unit is defined to perform a compression function on the partial result received from the first execution

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Col's pairing of microinstructions in the instruction queue with Black's system for data management, because it offers the advantage of being efficient in the execution of instructions (Col, Col. 1 Lines 43 - 50).

unit (Oka, Paragraph 0153, Compressing function).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Oka's public key certificate issuing system with Black's system for data management, because it offers the advantage of securing data security (Oak, Paragraph 0003).

6. As per claims 2, Black as modified teaches wherein the first execution unit is a single instruction multiple data (SIMD) execution unit (Col, Col. 3 Lines 61 – 63).

7. As per claim 3, Black as modified teaches the second execution unit is an integer execution unit (Col, Col. 14 Lines 10 – 16).

- 8. As per claim 19, Black as modified teaches operating the second execution unit to perform the compression function includes rotating bits in the partial result (Oka, Paragraph 0153, Compressing function).
- 9. Claims 4, 5, 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. U.S. Patent No. (7,103,602), Col et al. U.S. Patent No. (6,330,657) and Oka et al. U.S. PG-Publication No. (2002/0108042), as applied to claim 1 and in further view of Lilly U.S. Patent No. (6,829,355).
- 10. As per claim 4, Black fails to teach wherein the message is a parsed padded message. However, in an analogous art Lilly teaches the message is a parsed padded message (Lily, Col. 3 Lines 32 38).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Lilly's device for one-way hashing with Black's system for data management, because it offers the advantage of to maintain and improve security (Lilly, Col. 2 Lines 10 - 13).

- 11. As per claim 5, Black as modified teaches the parsed padded message includes an original message and a plurality of pad bits, the original message being a plurality of bits (Lilly, Col. 3 Lines 32 38).
- 12. As per claim 8, Black fails to teach the first execution unit receives a plurality of blocks, the plurality of blocks including an original message and a plurality of pad bits.

However, in an analogous art Lilly teaches the first execution unit receives a plurality of blocks, the plurality of blocks including an original message and a plurality of pad bits (Lilly, Col. 3 Lines 5 - 10).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Lilly's device for one-way hashing with Black's system for data management, because it offers the advantage of to maintain and improve security (Lilly, Col. 2 Lines 10 - 13).

13. As per claim 13, Black as modified teaches the cryptographic computation is further capable of performing a preprocessing operation (Col, Col. 20 Lines 45 – 54) but fails to teach the preprocessing operation includes padding the message, parsing a padded message and setting initial hash values. However, in an analogous art Lilly teaches the preprocessing operation includes padding the message, parsing a padded message and setting initial hash values (Lily, Col. 3 Lines 32 – 38).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Lilly's device for one-way hashing with Black's system for data management, because it offers the advantage of to maintain and improve security (Lilly, Col. 2 Lines 10 - 13).

14. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. U.S. Patent No. (7,103,602), Col et al. U.S. Patent No. (6,330,657) and Oka et al. U.S. PG-Publication No. (2002/0108042) and in further view Tague et al. U.S. Patent No. (4,799,181).

15. As per claim 6, Black fails to teach the partial result includes a group of bits capable of being represented by a hexadecimal value. However, in an analogous art Tague teaches the partial result includes a group of bits capable of being represented by a hexadecimal value (Tague, Col. 1 Lines 52 – 57).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Tague's BCD arithmetic using binary arithmetic and logical operations with Black's system for data management, because it offers the advantage of to being a more efficient way of processing data (Tague, Col. 1 Lines 25 – 29).

- 16. Claims 9, 15 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. U.S. Patent No. (7,103,602), Col et al. U.S. Patent No. (6,330,657), Oka et al. U.S. PG-Publication No. (2002/0108042) and Lilly U.S. Patent No. (6,829,355), and in further view Gibson U.S. Patent No. (5,155,820).
- 17. As per claims 9, 15 and 18, Black fails to teach message schedule computation includes a rotation operation capable of rotating the plurality of blocks. In an analogous art Gibson teaches message schedule computation includes a rotation operation capable of rotating the plurality of blocks (Gibson, Col. 9 Lines 7 27).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Gibson's instruction format with designation for operand lengths with Black's system for data management, because it offers the advantage of processing very fast while at a low cost (Gibson, Col. 3 Lines 23 – 28).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Tolentino whose telephone number is (571) 272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/783,859

Art Unit: 2134

Roderick Tolentino

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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